



DEVOPS SEMINAR

< ANSIBLE />



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Slug of the day: nsapool05



Ansible work only on Linux.

Maybe you've already noticed it, but it is quite painful and repetitive to install servers. ;)
There are automation solutions that you will discover today.

ex01 - Mandatory

All of the following tasks must be executed with ansible

The inventory must named 'host.ini' and must be the same :

```
▽ Terminal - + X
> cat host.ini
[nsapool05]
127.0.0.1 ansible_connection=local
```

The playbook will be executed as :

```
▽ Terminal - + X
> ansible-playbook -i host.ini playbook.yml
```



Be careful, the autograder must be executed on your Vm Server and may take time to execute the playbook

ex02 - Server

Install a new virtual machine with Debian 13.
Nothing needs to be installed apart from the base system.

- ✓ Configure the `root` account with `bv3xv` password.
- ✓ The network card is connected in *bridge mode* or *nat*.



The machine must be clear and clean for the demonstration



snapshot

ex03 - Hostname

Create a role that changes the name of your server to `nsapool05`.

ex04 - User

Create a role that creates a user named `marvin` with the following characteristics:

- ✓ Password: `NsaPool42`
- ✓ Home directory: `/home/marvin`

ex05 - Custom message of the day

Create a role that changes the welcome message to `Welcome to nsapool05` when you login into the server.

ex06 - Base

Create a role that updates the remote directory and installs the following packages:

- ✓ git
- ✓ htop
- ✓ curl
- ✓ sudo
- ✓ unzip
- ✓ python3
- ✓ python3-pip

ex07 - Nginx

Nginx is similar to apache2 and you will discover nginx for this day

Create a role that installs the latest version of *Nginx* and copies the provided website inside the Nginx's root directory. Website must listen on port 80.

ex08 - PHP

Create a role which install php <= 7.4 and the following modules:

- ✓ php-cli
- ✓ php-fpm
- ✓ php-json
- ✓ php-pdo
- ✓ php-mysql
- ✓ php-zip
- ✓ php-gd
- ✓ php-mbstring
- ✓ php-curl
- ✓ php-xml
- ✓ php-pear
- ✓ php-bcmath
- ✓ php-intl

Additionally, you must ensure the timezone is set to *Europe/Paris* in `php.ini`.

ex09 - MySQL

Create a role that:

- ✓ installs the latest MariaDB version ;
- ✓ copies the provided database.

Create a user for the database with the following features:

- ✓ user: `nsad04` ;
- ✓ rights: All on all databases ;
- ✓ password: `E24h7U5kA9HJhq5VM98pm7p5zmJpf8AK`.

ex10 - End

Eventually, if everything works, you should see a success message about the `marvin` user on the website available at [http://\[IP_SERVER\]/data.php](http://[IP_SERVER]/data.php).

v 1.4



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